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PANASONIC CT-13R23 OPERATING INSTRUCTIONS MANUAL

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Color Television
Operating Instructions

Panasonic®

CT–13R23

Read these instructions completely before operating this set.
Contents subject to change without notice or obligation.

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Safety Instructions

WARNING

RISK OF ELECTRIC SHOCK DO NOT OPEN

WARNING: To reduce the risk of electric shock do not remove cover or back. No user-serviceable parts inside. Refer servicing to qualified service personnel.

The lightning flash with arrow-head within a triangle is intended to tell the user that parts inside the product are a risk of electric shock to persons.

The exclamation point within a triangle is intended to tell the user that important operating and servicing instructions are in the papers with the appliance.

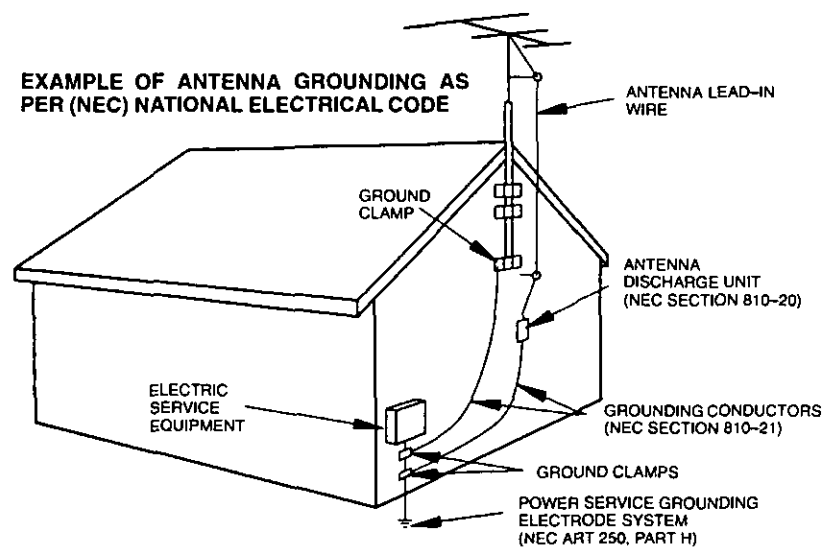
Note To CATV System Installer: This reminder is provided to call the CATV system installer's attention to Article 820–40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Safety Instructions For Television Receivers

1. Read and apply the operating instructions provided with your television receiver.
2. Read all of the instructions given here and retain them for later use.
3. Unplug this television receiver from the wall outlet before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.
4. Do not use attachments not recommended by the television receiver manufacturer as they may cause hazards.
5. Do not use this television receiver near water. For example: Avoid placing it near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, etc.
6. Do not place this television receiver on an unstable cart, stand, or table. The television receiver may fall, causing serious injury to a child or adult, and serious damage to the appliance. Use only with a cart or stand recommended by the manufacturer, or sold with the television receiver. Wall or shelf mounting should follow the manufacturer's instructions, and should use a mounting kit approved by the manufacturer.

6A. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

7. Slots and openings in the cabinet and the back or bottom are provided for ventilation, and to insure reliable operation of the television receiver and to protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing the television receiver on a bed, sofa, rug or other similar surface. This television receiver should never be placed near or over a radiator or heat register. This television receiver should not be placed in a built-in installation such as a bookcase unless proper ventilation is provided.
8. Operate only from the type of power source indicated on the marking label. If you are not sure of the type of power supplied to your home consult your television dealer or local power company. For television receivers designed to operate from battery power, refer to the operating instructions.
9. This television receiver is equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.
10. Do not allow anything to rest on the power cord. Do not locate this television receiver where the cord will be abused by persons walking on it.
11. Follow all warnings and instructions marked on the television receiver.
12. Do not overload wall outlets and extension cords as this can result in fire or electric shock.
13. Never push objects of any kind into this television receiver through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the television receiver.


EXAMPLE OF ANTENNA GROUNDING AS PER (NEC) NATIONAL ELECTRICAL CODE
ANTENNA LEAD-IN WIRE
GROUND CLAMP
ANTENNA DISCHARGE UNIT (NEC SECTION 810-20)
ELECTRIC SERVICE EQUIPMENT
GROUNDING CONDUCTORS (NEC SECTION 810-21)
GROUND CLAMPS
POWER SERVICE GROUNDING ELECTRODE SYSTEM (NEC ART 250, PART H)

14. If an outside antenna is connected to the television equipment, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges. In the U.S. Section 810 of the National Electrical Code and in Canada Part 1 of the Canadian Electrical Code provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead–in wire to an antenna discharge unit, size of grounding conductors, location of antenna–discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure.
15. For added protection for this television receiver during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna. This will prevent damage to the receiver due to lightning and power–line surges.
16. An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.
17. Unplug this television receiver from the wall outlet, and refer servicing to qualified service personnel under the following conditions:
    a. When the power cord or plug is damaged or frayed.
    b. If liquid has been spilled into the television receiver.
    c. If the television receiver has been exposed to rain or water.
    d. If the television receiver does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the television receiver to normal operation.
    e. If the television receiver has been dropped or the cabinet has been damaged.
    f. When the television receiver exhibits a distinct change in performance – this indicates a need for service.
18. Do not attempt to service this television receiver yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
19. When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
20. Upon completion of any service or repairs to this television receiver, ask the service technician to perform routine safety checks to determine that the television is in safe operating condition.
21. **WARNING: To prevent fire or shock hazard, do not expose this appliance to rain or moisture.**
22. **CAUTION:** TO PREVENT ELECTRIC SHOCK DO NOT USE THIS (POLARIZED) PLUG WITH A RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

NOTE: This equipment is designed to operate in the U.S.A., Canada and other countries where the broadcasting system and AC house current is exactly the same as in the U.S.A. and Canada.

Important Information Regarding Use of Video Games, Computers, Teletext or Other Fixed Image Displays.

The extended use of fixed image program material can cause a permanent "shadow image" on the picture tube. This background image is viewable on normal programs in the form of a stationary fixed image. This type of irreversible picture tube deterioration can be limited by observing the following steps:

A. Reduce the brightness/contrast setting to a minimum viewing level.
B. Do not display the fixed image for extended periods of time.
C. Turn the power off when not in actual use.

NOTE: The marking or retained image on the picture tube resulting from fixed image use is not an operating defect and as such is not covered by Warranty. This product is not designed to display fixed image patterns for extended periods of time.

Specifications

Power Source:	120V, 60Hz, AC & 12V, DC
Channel Capability:	181 channels (See chart) VHF 2~13, UHF 14~69, Cable 125 channels
Video Input Jack:	1V p–p, 75 ohm, phono jack type
Audio Input Jack:	High impedance – 10K ohm, 500mV rms
Closed Caption Display	

Specifications are subject to change without notice or obligation.

Channel Capability Chart

BAND	USA/CAN
VHF	12
UHF	56
CABLE (Mid–Band)	15
CABLE (Super Band)	14
CABLE (Hyper Band)	28
CABLE (Ultra Band)	56
TOTAL CHANNELS	**181**

Introduction

Congratulations on Your New Purchase

Your new video component features an all solid state chassis which is designed to give you many years of enjoyment. It was thoroughly tested and adjusted at the factory for best performance.

In order for you to take full advantage of your new video component, please read and follow the installation and operating instructions supplied with this product.

Customer's Record

The model and serial number of this product may be found on its back cover. You should note the model and serial number in the space provided and retain this book as a permanent record of your purchase to aid in identification in the event of theft or loss.

Model Number: _____ Serial Number: _____

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AC/DC Operation

Power Sources

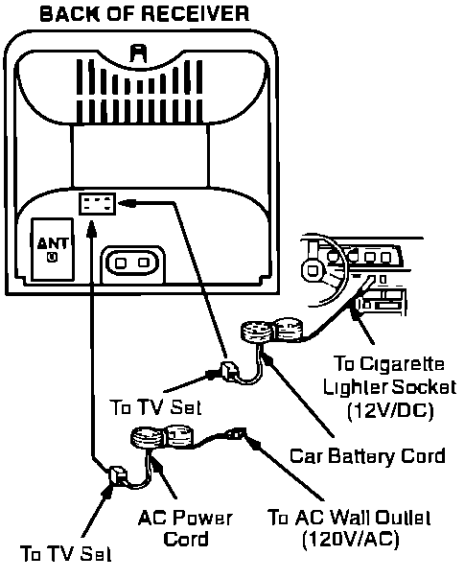
This TV set operates on 120 volt, 60Hz AC and on 12 volt negative ground car battery systems through the cigarette lighter socket Two power cords (AC Power Cord and Car Battery Cord) are supplied

A. House Current Operation

Insert the AC power cord (supplied) into the socket on the rear of the TV and connect the plug to a convenient wall outlet (120 Volt, 60Hz)

This plug is polarized for safety If you are unable to insert the plug fully into the outlet try reversing the plug If the plug should still fail to fit, contact your electrician Do not defeat the safety purpose of the polarized plug

CAUTION: TO PREVENT ELECTRIC SHOCK DO NOT USE THIS (POLARIZED) PLUG WITH A RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE



B. Car Battery Operation

Prior to Use:

Before connecting the car battery cord (supplied), check the polarity of your car battery The car cord supplied is designed for use with a negative grounded battery If your car has a positive ground, consult your Panasonic dealer If you have any questions concerning the car polarity or battery voltage, consult your car dealer

Connection and Use:

Remove the cigarette lighter from your car and insert the car battery cord plug in its place Insert the car cord into the socket on the rear of the TV To turn Receiver ON, press the POWER button

Notes

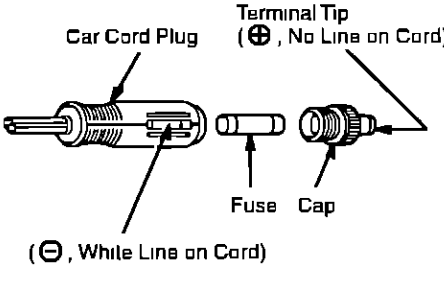
1 While the car is moving, it may be difficult to obtain good reception due to signal variations
2 It is recommended to operate with the engine idling under the following conditions
   a) Very low outside temperatures likely to cause difficult engine starts
   b) Viewing the Receiver for more than just a few hours (For personal safety when in a vehicle with engine idling always keep a window slightly open to prevent being overcome from possible engine fume leaks)
3 Do not operate the set when starting the engine to avoid overloading the engine
4 When finished viewing, turn OFF POWER and disconnect power cord from cigarette lighter Failure to do so may discharge your car battery

Fuse Replacement

If the car cord does not seem to function normally, check if the fuse in the plug is blown If the fuse is blown, replace it with the spare fuse supplied

Proceed as follows:

1 Turn the TV set OFF and unplug the car cord from the cigarette lighter socket
2 Loosen and remove the cap
3 Pull out the fuse
4 Install the spare fuse supplied
5 Replace the cap
6 Plug the car cord into the cigarette lighter socket and turn the TV set ON



Notes:

1 When the fuse is blown, replace it only with the same type, 7A–125V Never use an ordinary piece of wire
2 Always keep the cigarette lighter socket of the car clean If the socket is dirty with cigarette ash, the resulting bad contact may overheat the car cord plug

Installation

Receiver Location

This unit is intended to be used with an optional stand or entertainment center Consult your dealer for available options

Locate for comfortable viewing Avoid placing where sunlight or other bright light (including reflections) will fall on the screen

Use of some types of fluorescent lighting may reduce remote control transmitter range

Adequate ventilation is essential to prevent internal component failure Keep away from areas of excessive heat or moisture

To insure optimum color purity do not position magnetic equipment (motors, fans, other speakers, etc) nearby

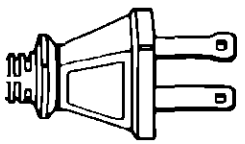
Optional External Equipment Connections

The Video/Audio connections between components can be made with shielded video and audio cables For best performance, video cables should utilize 75 ohm coaxial shielded wire Cables are available from your dealer or electronic supply house

Before you purchase any cables, be sure you know what type of output and input connectors your various components require Also determine the length of cable you'll need

AC Power Supply Cord

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT OF AC OUTLET AND FULLY INSERT DO NOT USE THIS (POLARIZED) PLUG WITH A RECEPTACLE OR OTHER OUTLET UNLESS THE BLADE CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE



Polarized Plug

Remote Control Battery Installation

Batteries Use two "AA" batteries

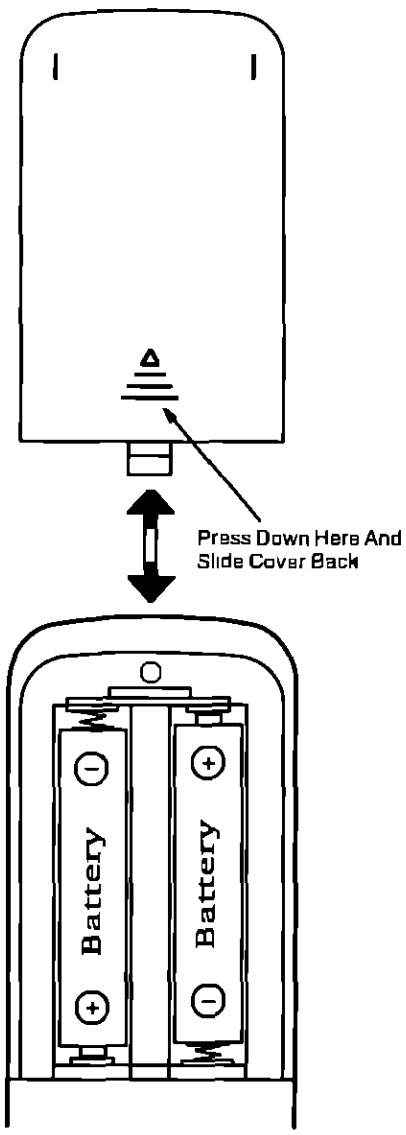
1 Turn the Transmitter face down To remove bottom cover, press down on marking and slide cover off in the direction indicated
2 Install the batteries as shown in the battery compartment (Polarity (+) or (–) must be correct)
3 Replace the cover and slide in reverse until the lock snaps
4 For heavy Remote Control use, replace old batteries with Alkaline batteries for longer life

Precaution on Battery Use

Incorrect installation can cause battery leakage and corrosion that will damage the Remote Control Transmitter

Observe the Following Precautions.

1 Batteries must be replaced as a pair
2 Do not combine a used battery with a new one
3 Do not mix battery types (Example "Zinc Carbon" with "Alkaline")
4 Do not attempt to charge, short–circuit, disassemble, heat or burn used batteries
5 Battery replacement is necessary when Remote Control reacts sporadically or stops operating the Receiver



Installation (cont.)

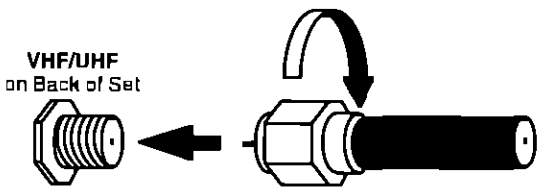
Antenna/Cable Connections

Antenna Connection – For proper reception of VHF/UHF channels an external antenna is required For best reception an outdoor antenna is recommended Antenna Mode must be set to TV (Refer to Antenna Mode section)

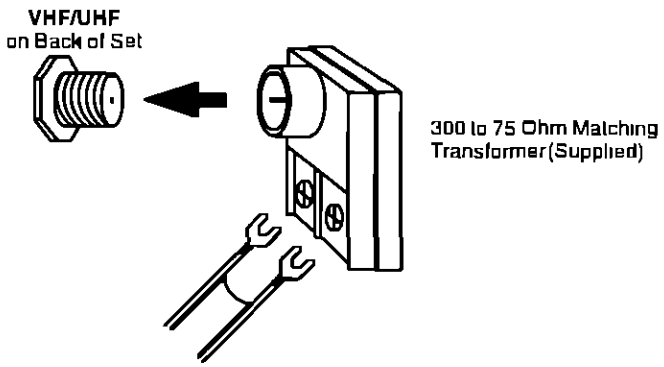
Cable Connection – For reception of cable channels (01–125) connect the cable supplied by your local cable company Antenna Mode must be set to CABLE (Refer to Antenna Mode section)

NOTE Certain cable systems offset some channels to reduce interference or have Premium (scrambled) channels A cable converter box is required for proper reception Check with your local Cable company for its compatibility requirements

Incoming 75 Ohm Cable From Home Antenna Or Cable Company

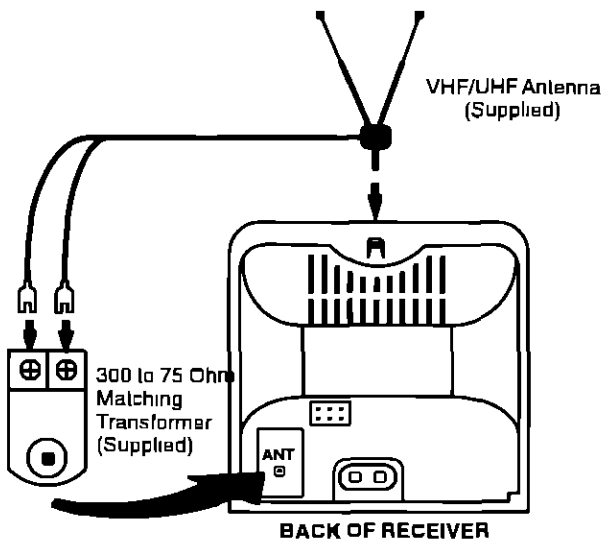


Incoming 300 Ohm Twin Lead Cable From Home Antenna



How to Install VHF/UHF Dipole Antenna

A VHF/UHF antenna and matching transformer are supplied
Push the stem of the VHF/UHF antenna into the antenna hole on the cabinet back as shown
Extend the antenna and adjust its length, direction and angle for the clearest picture



Other Video Equipment

VCRs, Video Disc Players, Computers, TV games and Teletext equipment can also be connected to the antenna input connection

Optional Equipment Connection and Operation

Video/Audio Connection

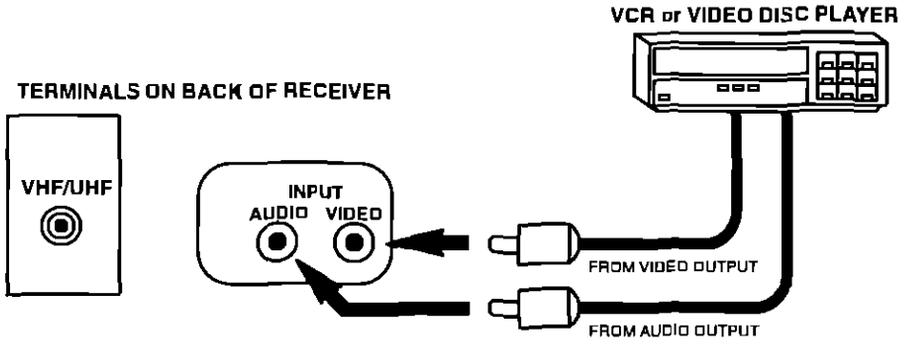
Operation

1 Connect the Optional Equipment as shown If Optional Equipment is Stereo, place Optional Equipment in Monaural Mode and use either left or right Audio Output jack

2 Select Video Input mode by pressing the TV/VIDEO button

- TV – (CH and channel number will display On Screen) normal TV operation
- VIDEO – (VIDEO will display On Screen) used when optional accessory video equipment (such as VCR, VIDEO DISC player, etc) is connected to the INPUT JACKS on back of Receiver

3 Operate optional equipment (VCR–VDP) as instructed in Optional Equipment manual



Care and Cleaning

Picture Tube (Turn set off)

Use a mild soap solution or window cleaner and a clean cloth DO NOT USE ABRASIVE CLEANERS Avoid excessive moisture and wipe dry

Plastic Cabinets

Wipe the cabinet with a soft cloth dampened with water or a mild detergent solution and wipe dry with a soft clean cloth Avoid excessive moisture Do not use benzene, thinners or other petroleum based cleaners

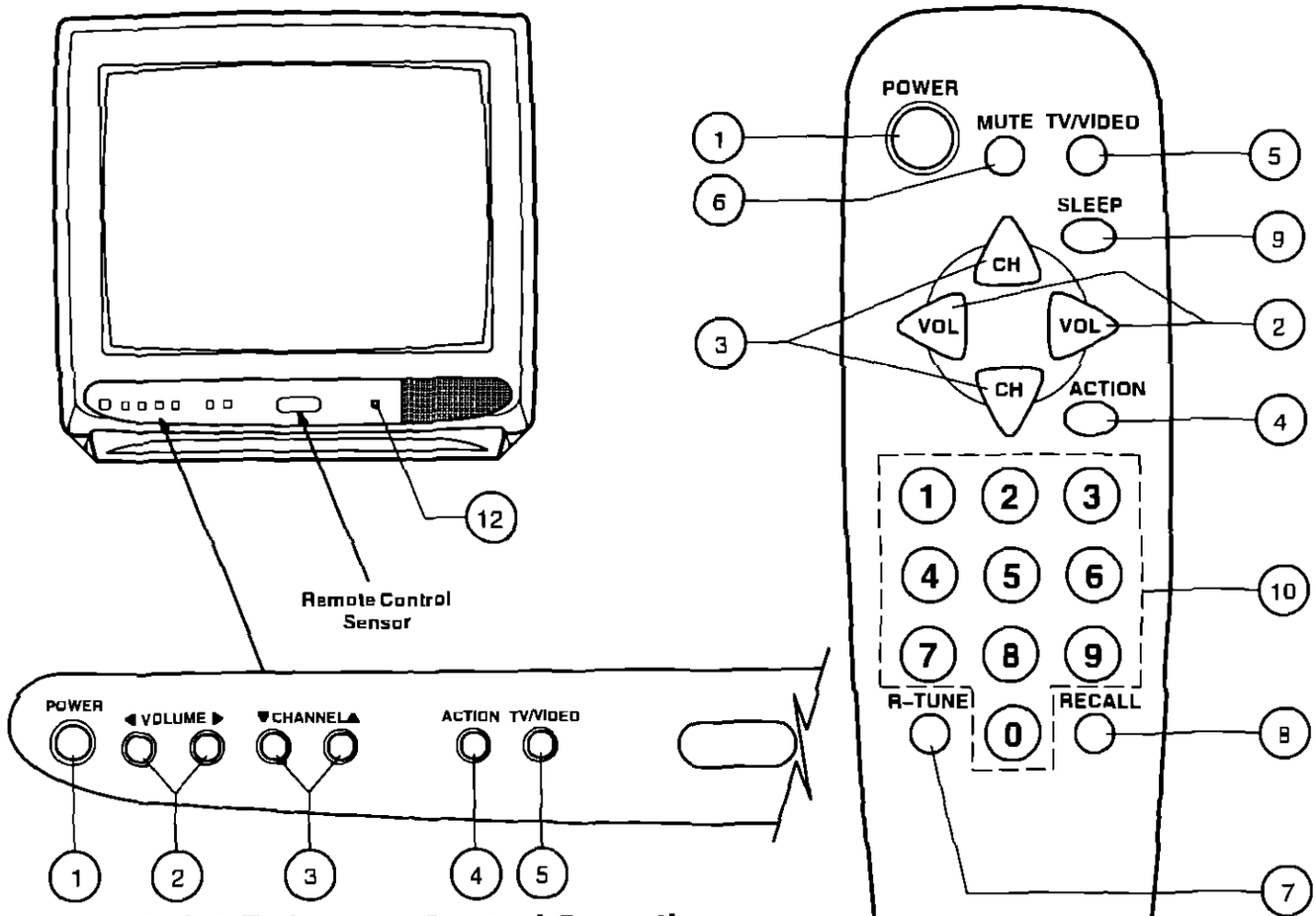
Wood Cabinets

When dusting or polishing the cabinet, use a clean soft cloth and stroke straight with the grain An occasional coat of furniture polish will help preserve the finish Do not use benzene, thinners or other petroleum based cleaners Do not place objects made of plastic or rubber directly on top of the cabinet A chemical reaction could result causing permanent marring of the finish

Remote Control Transmitter

Do not use benzene, thinners or other petroleum based cleaners to clean the Remote Control Transmitter To clean, wipe with a soft cloth slightly moistened with a mild detergent and then wipe dry with a soft clean cloth

Location of Controls
(Remote and Receiver)



Remote Control

Quick Reference Control Operation

(1) **Power Button** – Press to turn ON or OFF (pg 11)

(2) **Vol (Volume) Buttons** – Press to adjust Sound Level Press to adjust Video Menus and select operating features when menus are displayed (pg 11)

(3) **Ch (Channel) Buttons** – Press to select programmed channels Press to select desired features when menus are displayed (pg 11)

(4) **Action Button** – Press to display Main Menu and access On Screen feature and Adjustment Menus (pg 13)

(5) **TV/Video Button** – Press to select TV or Video Input (pg 12)

(6) **Mute Button** – Press to mute sound A second press returns sound (pg 11)

(7) **R-Tune (Rapid Tune) Button** – Press to switch between two channels (pg 12)

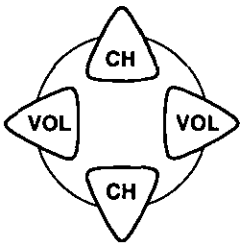
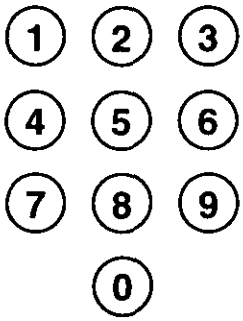
(8) **Recall Button** – Press to display Time, status of Sleep Timer, Channel, Video Mode and Channel Caption (Station Identifier) (pg 12)

(9) **Sleep Button** – Press to select automatic Turn OFF in 30, 60 or 90 minutes (pg 12)

(10) **Keyboard "0 through 9" Buttons** – Press desired channel number to access any channel (pg 11)

(11) **Earphone Jack** – Plug in an optional earphone for private monitoring of sound This jack accepts an earphone with an 1/8" mini plug

Remote
Quick Reference Functional Key Chart

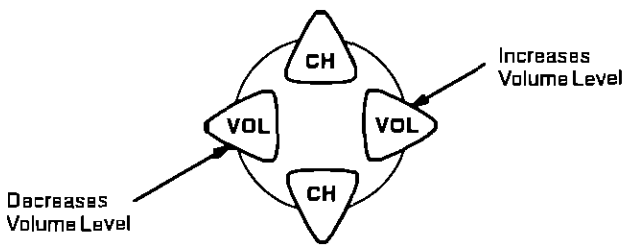
KEY	OPERATES	FUNCTION
POWER	TV	Turns TV On and Off
MUTE	TV	Mutes TV Audio
TV/VIDEO	TV	Selects the TV Input Mode
ACTION	TV	Activates TV Menus
	TV	Channel Up/Down, Menu Navigation
	TV	Volume Up/Down, Menu Navigation
	TV	Selects Channel Selects code in Game Guard Menu Selects Channel in Channel Caption Menu Selects Channel in Timer Menu
R-TUNE	TV	Selects Previously Tuned Channel
RECALL	TV	Displays Channel, Time, Sleep time and Channel Caption
SLEEP	TV	Selects 30, 60 Or 90 Minutes For Automatic Turn Off also use to turn sleep timer off by selecting NO

Control Operation

Power Button – Press the POWER button to turn ON Press again to turn OFF

Vol (Volume) Buttons – Press the VOLUME (VOL) LEFT or RIGHT button for desired listening level (while On Screen Menus are not displayed)

Located On Remote Control



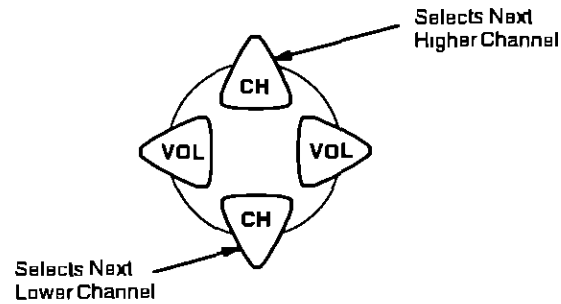
Mute Button – Press the MUTE button to quickly reduce sound level (Mute will appear on screen) Press again to restore sound

CH (Channel) Buttons

Option 1.

Press the CHANNEL (CH) UP or DOWN button to sequentially scan through programmed channels (while On Screen Menus are not displayed)

Located On Remote Control

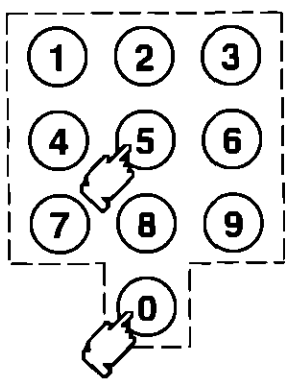


Keyboard "0 through 9" Buttons

Option 2.

Press two digits on keyboard (Example press 0, then 5 for channel 05) For channels over 99, press three digits on keyboard

Located On Remote Control

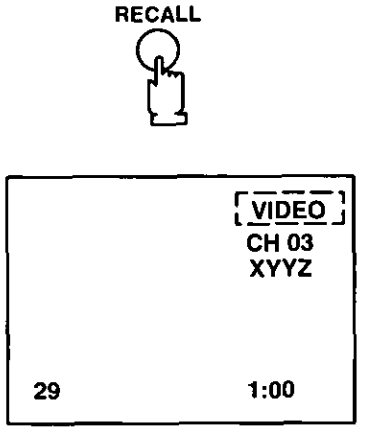


Helpful Hints:

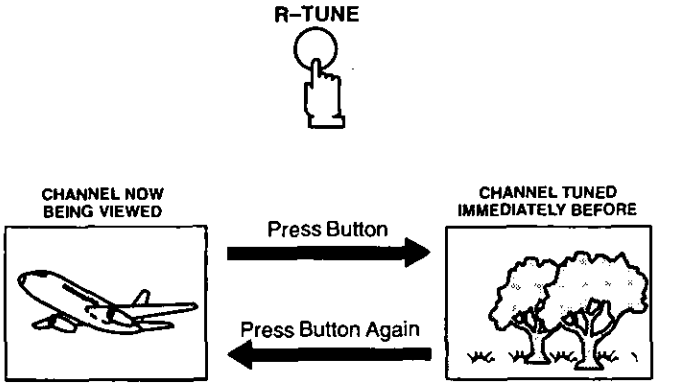
- Helpful information will display On Screen momentarily when Receiver is first turned on and when the channel is changed
- When using keyboard entry for channels 10,11 and 12 in the CABLE mode, there is a slight delay before channel change because of the capability of tuning cable channels 100 to 125

Recall Button – Press the RECALL button to review:

- CH Number or Video Input selected
- Sleep Timer status
- Clock Time
- Channel Caption (Station Identifier)

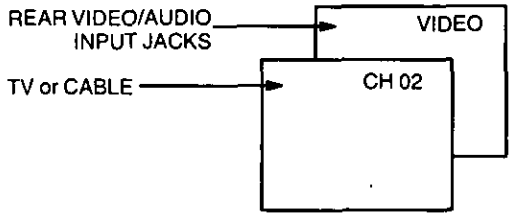


R–Tune (Rapid Tune) Button – Press the R–TUNE (RAPID TUNE) button to instantly switch between the last two channels selected (without any On Screen display being activated).



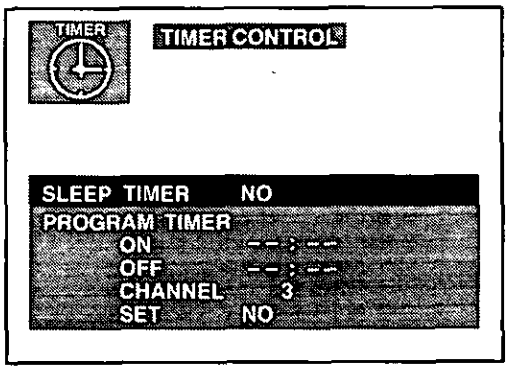
TV/Video Button – Press the TV/VIDEO button to select desired input.

Signal connected to:

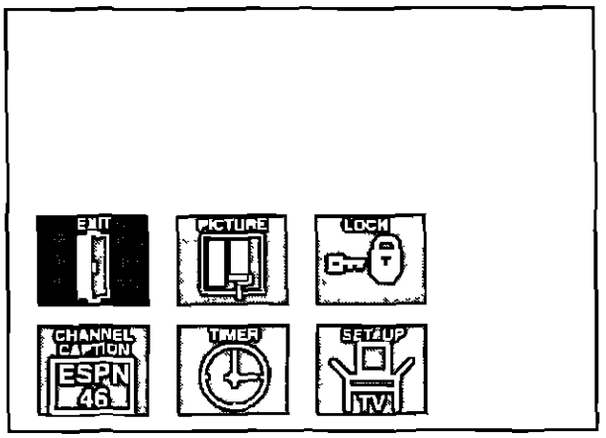


Sleep Button – Press the SLEEP button repeatedly for automatic turn OFF in 30, 60 or 90 minutes as desired. Sleep Timer clock will flash prior to automatic turn OFF.

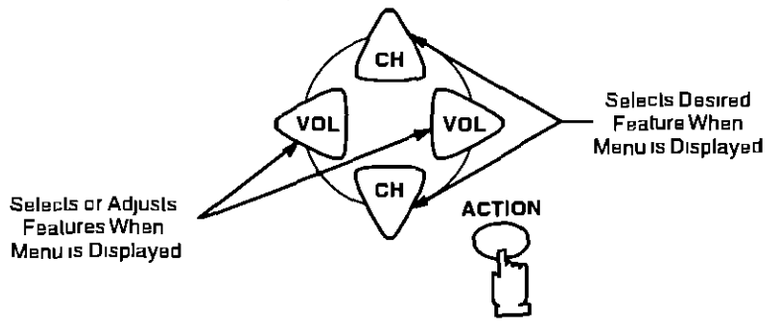
NOTE: Display will flash 3, 2 and 1 to indicate the last three remaining minutes prior to turn OFF. To deactivate, press the Sleep button continuously until the display reads "NO".



Main Menu Icons Selection



Located On Remote Control



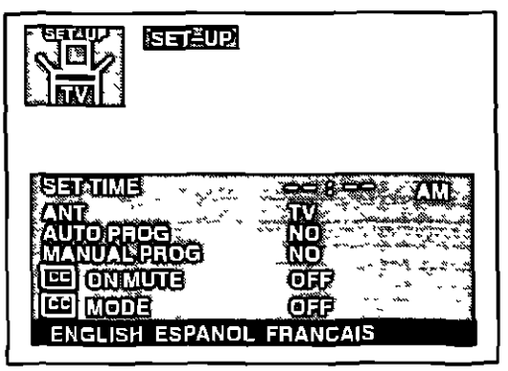
Displays and Exits Menus

1 Press the ACTION button to display the Main Menu with Icons
2 Press the CH UP or DOWN and the VOL LEFT or RIGHT buttons to select the desired Icon when the Main Menu is displayed (selected Icon will be indicated in Red) Press the VOL buttons for left and right movement and the CH buttons for up or down movement
3 Press the ACTION button after selecting the desired Icon to access sub menus
4 To exit the Main Menu first select the EXIT Icon, then press the ACTION button

Trilingual Menu Selection

The Language Menu is factory set to ENGLISH Follow these instructions to change the Language Menu to Spanish or French and back to English.

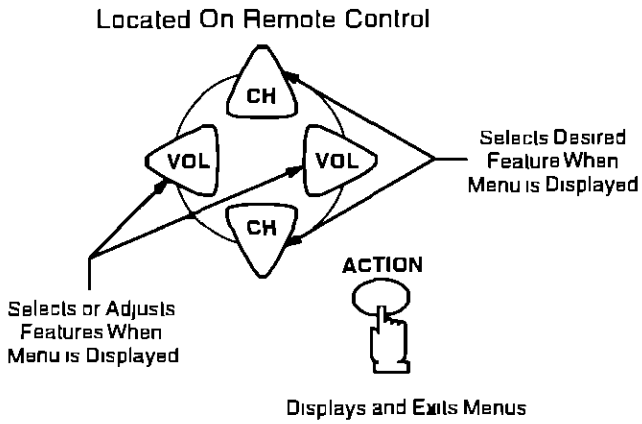
1 Press the ACTION button to display the Main Menu
2 Press the CH UP/DOWN and VOL LEFT/RIGHT buttons to highlight the SET–UP Icon
3 Press the ACTION button to display the SET–UP Menu



4 Press the CH UP or DOWN button to highlight "ENGLISH ESPANOL FRANCAIS "
5 Press the VOL LEFT or RIGHT button to select "ENGLISH", "ESPANOL" or "FRANCAIS"
6 Press the ACTION button twice to exit the SET–UP Menu

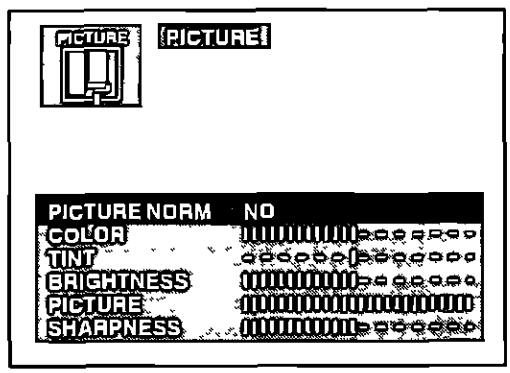
Picture Adjustments

- Picture Norm
- Color
- Tint
- Brightness
- Picture
- Sharpness



Picture Norm – This feature is used to reset Color, Tint, Brightness, Picture and Sharpness adjustments back to a factory preset level

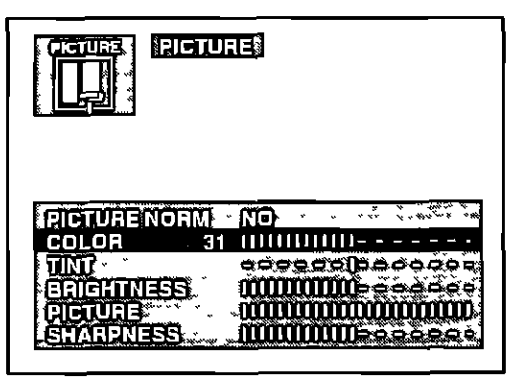
1 Press the ACTION button to display the Main Menu
2 Press the CH UP/DOWN and VOL LEFT/RIGHT buttons to highlight the Picture Icon
3 Press the ACTION button to display the Picture Adjustment Menu



4 Press the CH UP or DOWN button to highlight "PICTURE NORM" (if necessary)
5 Press the VOL LEFT or RIGHT button to select "SET" to Normalize Color, Tint, Brightness, Picture and Sharpness
6 Press the ACTION button twice to exit the Picture Adjustment Menu

Color, Tint, Brightness, Picture and Sharpness Adjustments

1 Press the ACTION button to display the Main Menu
2 Press the CH UP/DOWN and VOL LEFT/RIGHT buttons to highlight the Picture Icon
3 Press the ACTION button to display the Picture Adjustment Menu



4 Press the CH UP or DOWN button to highlight the desired Picture Adjustment (Color, Tint, Brightness, Picture or Sharpness)
5 Press the VOL LEFT or RIGHT button to adjust your selection (The selected Picture Adjustment will be displayed)
6 Repeat steps 4 and 5 for the remaining Picture Adjustments
7 Press the ACTION button twice to exit the Picture Adjustment Menu

Helpful Hints:

Picture Adjustments

COLOR – adjust for desired color intensity

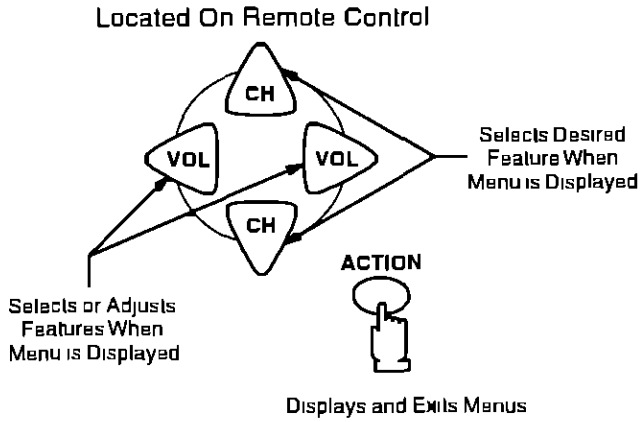
TINT – adjust for natural flesh tones

BRIGHTNESS – adjust so dark areas of picture just become black for a crisp detail

PICTURE – adjust so the white areas of the picture are to your liking

SHARPNESS – adjust for best clarity of outline detail

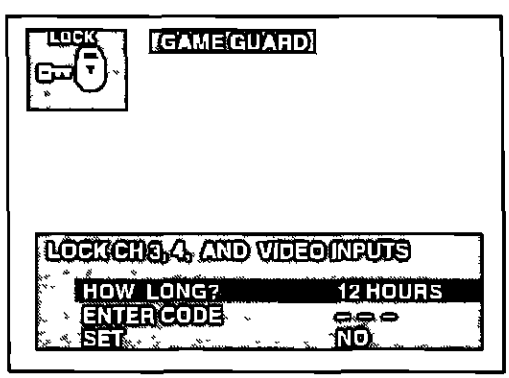
Lock



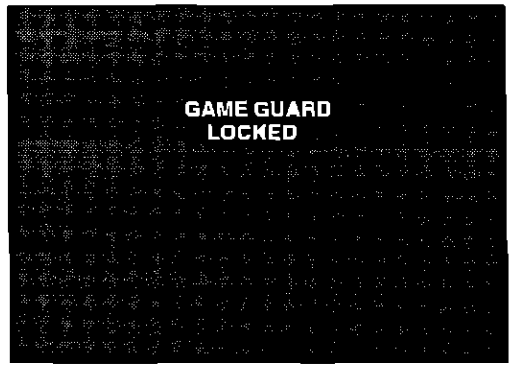
Lock (Game Guard) – Prevents video games and other video sources from being viewed Channel 3, 4 and video inputs are locked out for 12, 24 or 48 hours

NOTE. Be sure to understand this feature before attempting its use **Use a code that you will easily remember or write down code on a piece of paper**

1 Press the ACTION button to display the Main Menu
2 Press the CH UP/DOWN and VOL LEFT/RIGHT buttons to highlight the Lock Icon
3 Press the ACTION button to display the Lock (Game Guard) Menu



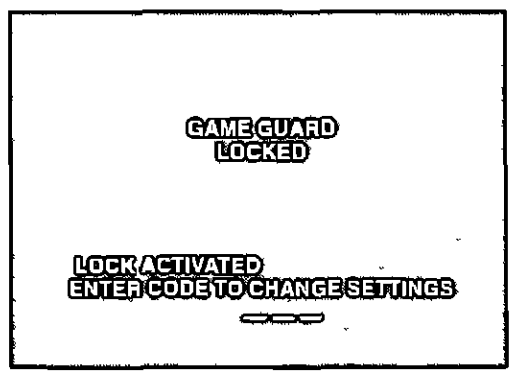
4 "HOW LONG" should already be highlighted Press the VOL RIGHT button to select the desired amount of time (12, 24 or 48 hours) for Game Guard (Lock-out) to be activated
5 Press the CH DOWN button to highlight "ENTER CODE" Then enter a 3 digit code with the Remote Control Keyboard "SET" should be highlighted after entering the last digit
IMPORTANT NOTE· Use a code you can easily remember or write down the code on a piece of paper
6 Press the VOL LEFT or RIGHT button after entering three digit code "Game Guard Locked" will display On Screen



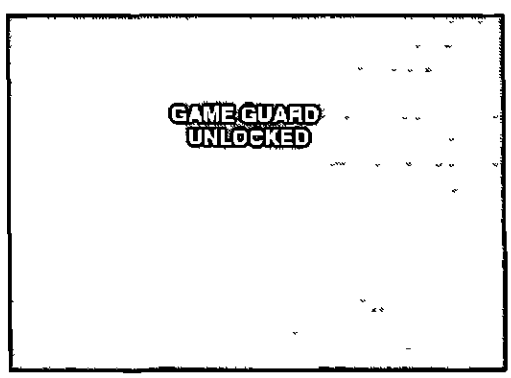
Game Guard Activated

Unlock (Game Guard)

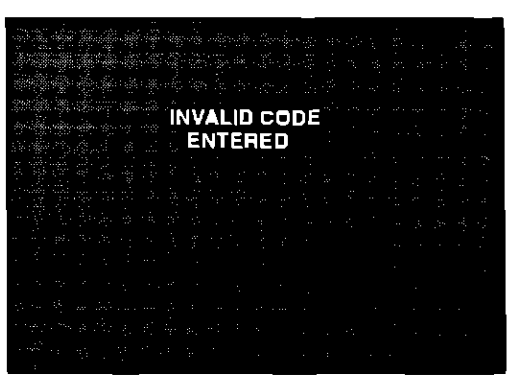
To unlock the Game Guard feature, repeat steps 1 through 3 Enter the same 3 digit code previously used in step 5 with Remote Control Keyboard



Enter Same 3 Digit Code Previously Used



If 3 Digit Code Is The Same

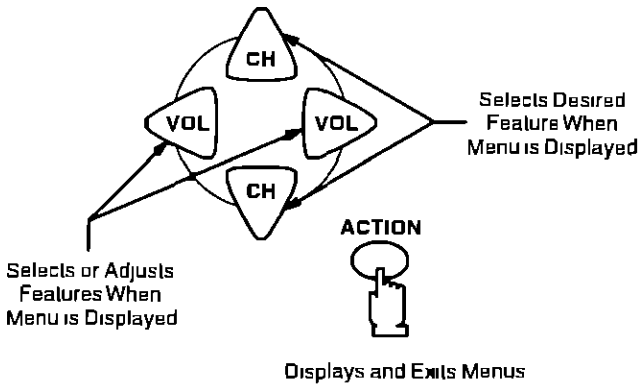


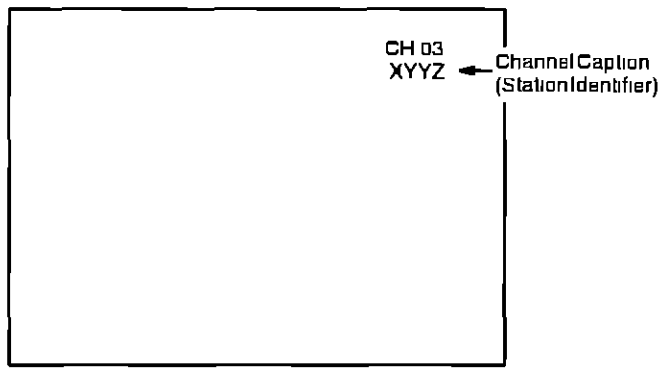
If 3 Digit Code Is Not The Same

Channel Caption

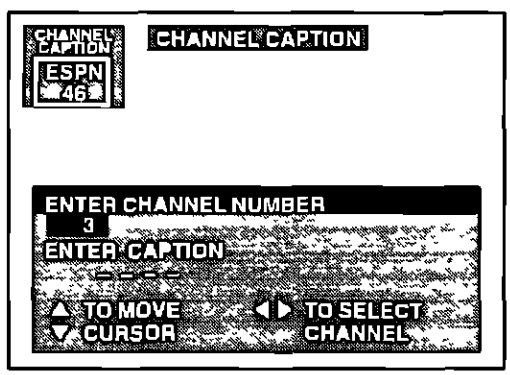
This feature allows you to enter the call names of up to 30 stations into memory (using up to 4 characters for each station) The call name will then display along with the channel number when changing channels or pressing RECALL

Located On Remote Control





1 Press the ACTION button to display the Main Menu
2 Press the CH UP/DOWN and VOL LEFT/RIGHT buttons to highlight the Channel Caption Icon
3 Press the ACTION button to select and display the Channel Caption Menu



4 Press the VOL LEFT or RIGHT button, or use the Remote Control Keyboard (0–9), to enter the channel number you wish to assign a Station Identifier
5 Press the CH DOWN button to highlight "ENTER CAPTION"
6 Press the VOL LEFT or RIGHT button to select first character in Station Identifier Then press the CH DOWN button to move cursor to the second position and repeat until the complete Station Identifier is entered (up to 4 characters)
7 Press the CH UP or DOWN button to highlight "ENTER CHANNEL NUMBER" Then repeat steps 4 through 6 to continue adding Channel Station Identifier(s)
8 Press the ACTION button twice to exit the Channel Caption Menu

NOTE: To delete a Channel Caption (Station Identifier) from memory all four character positions in the "ENTER CAPTION" area must display a dash mark (–)

Helpful Hints:

When the Maximum amount of station identifiers are entered, "FULL" will be displayed in the caption position

Timer Features

- Sleep Timer
- Program Timer

Special Feature:

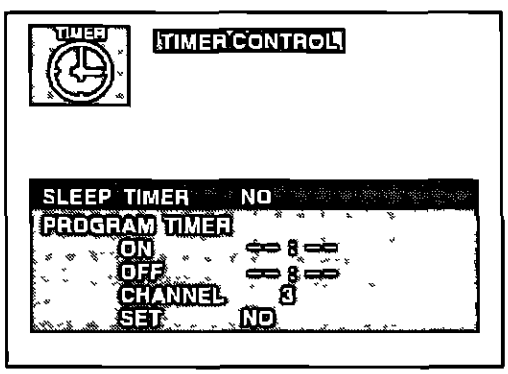
Automatic turn "OFF" after 90 minutes.

The TV has a special feature that will shut itself **OFF** after 90 minutes when turned **ON** by the program timer unless a function key is pressed during the 90 minutes
This feature is useful so that the TV will not remain **ON** unattended for an extended period of time
Programming the **OFF** timer will also cancel the automatic **OFF** feature

Sleep Timer – This feature is used for automatic turn off in 30, 60 or 90 minutes

NOTE. Display will flash 3, 2 and 1 to indicate the last three remaining minutes prior to turn off The Recall display will also appear

1 Press the ACTION button to display the Main Menu
2 Press the CH UP/DOWN and VOL LEFT/RIGHT buttons to highlight the Timer Icon
3 Press the ACTION button to display the Timer Control Menu SLEEP TIMER position should already be highlighted If not, press CH UP/DOWN to highlight SLEEP TIMER



4 Press the VOL RIGHT button to select 30, 60 or 90 minutes (Sleep Timer will be activated)
5 Press the ACTION button twice to exit the Timer Control Menu

NOTE: To deactivate Sleep Timer repeat steps 1 through 4 In step 4 select "NO" instead of minutes

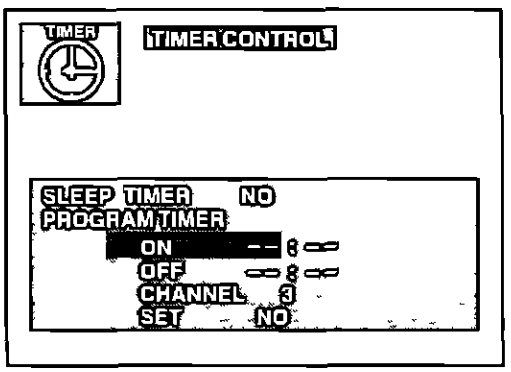
Helpful Hints:

Press the RECALL button to display the remaining minutes for Sleep Timer, the time will display in the bottom left corner

Program Timer – This feature is capable of turning the TV on, tuned to a desired channel and off at a predetermined time (one day or daily)

NOTE: The clock must be set for this feature to operate (Refer to the Set–Up Menu to set time)

1 Press the ACTION button to display the Main Menu
2 Press the CH UP/DOWN and VOL LEFT/RIGHT buttons to highlight the Timer Icon
3 Press the ACTION button to display the Timer Control Menu



4 Press the CH DOWN button to highlight "ON" (time)
5 Press the VOL LEFT or RIGHT button repeatedly to set hours (set AM/PM accordingly)
6 Press the CH DOWN button to highlight the minutes position
7 Press the VOL LEFT or RIGHT button repeatedly to set minutes
8 Press the CH DOWN button to highlight "OFF" (time)
9 Repeat steps 5 through 7 for setting "OFF" (time)
10 Press the CH DOWN button to highlight "CHANNEL"
11 Press the VOL LEFT or RIGHT button or use the Remote Control Keyboard to enter the channel number desired when the set turns "ON"
12 Press the CH DOWN button to highlight "SET"
13 Press the VOL RIGHT button to select
   - NO – not activated
   - ONE DAY – activated
   - DAILY – activated

NOTE: To deactivate Program Timer select "NO" in step 13

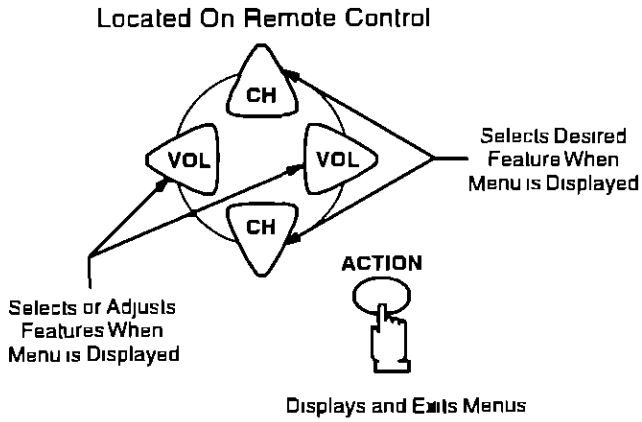
14 Press the ACTION button twice to exit the Timer Control Menu

Helpful Hints:

- If you see "GAME GUARD" in the upper right hand corner, the channel or Video Input you have selected has been locked out
- If the Program Timer "ON" functions while the set is operating, the set will automatically tune to the channel designated in the Timer Program

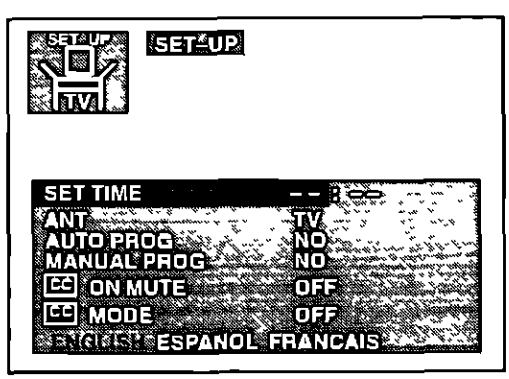
Set–Up Features

- Set Time
- Ant (Antenna)
- Auto Prog (Program)
- Manual Prog (Program)
- CC (Closed Caption) on Mute
- CC (Closed Caption) Mode
- English, Espanol (Spanish) or Francais (French)



Set Time – Clock (when set) will display on screen at initial "Turn On", after a channel change and when pressing the RECALL button The time must be set first in order to operate the Program ON/OFF Timer

1 Press the ACTION button to display the Main Menu
2 Press the CH UP/DOWN and VOL LEFT/RIGHT buttons to highlight the Set–Up Icon
3 Press the ACTION button to display the Set–Up Menu, "SET TIME" will be highlighted

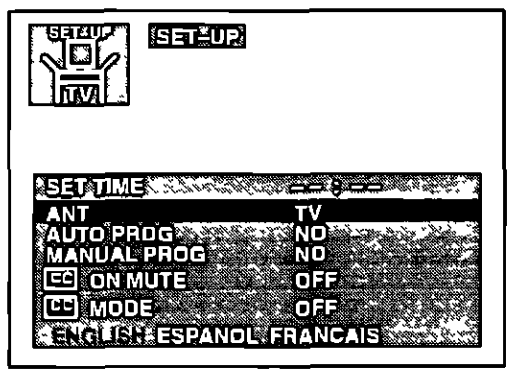


4 Press the VOL LEFT or RIGHT button to set hours (set AM/PM accordingly)
5 Press the CH DOWN button to select minutes position
6 Press the VOL LEFT or RIGHT button repeatedly to set minutes
7 Press the ACTION button twice to exit the Set–Up Menu

Ant (Antenna) – The proper Input mode must be selected for the type of signal at the antenna input

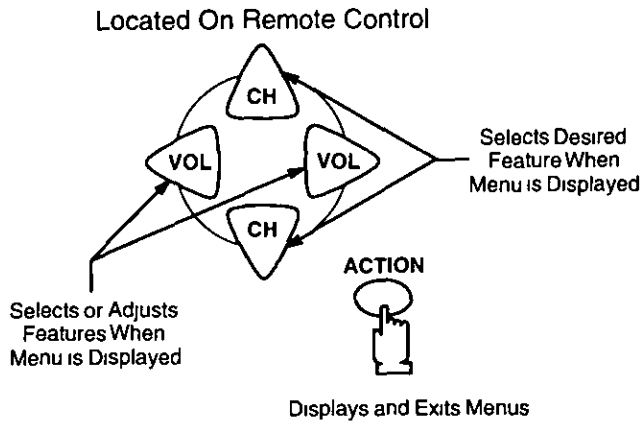
- TV mode is used when the Receiver is not connected to a cable TV system, for example when using a VHF/UHF antenna (channels 02 – 69)
- Cable mode is used when the Receiver is connected to a Cable TV system and you are not using a cable company converter box (channels 01 – 125)

1 Press the ACTION button to display the Main Menu
2 Press the CH UP/DOWN and VOL LEFT/RIGHT buttons to highlight the Set–Up Icon
3 Press the ACTION button to display the Set–Up Menu



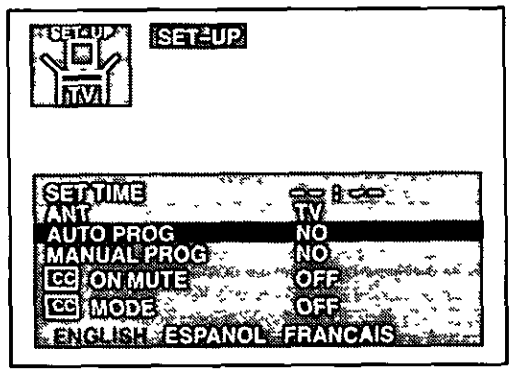
4 Press the CH DOWN button to highlight "ANT"
5 Press the VOL LEFT or RIGHT button to select TV or CABLE
6 Press the ACTION button twice to exit the Set–Up Menu

Set–up Features (cont.)



Auto Prog (Program) – This feature allows you to place all channels with a video signal into Channel Scan Memory

1 Press the ACTION button to display the Main Menu
2 Press the CH UP/DOWN and VOL LEFT/RIGHT buttons to highlight the Set–Up Icon
3 Press the ACTION button to display the Set–Up Menu

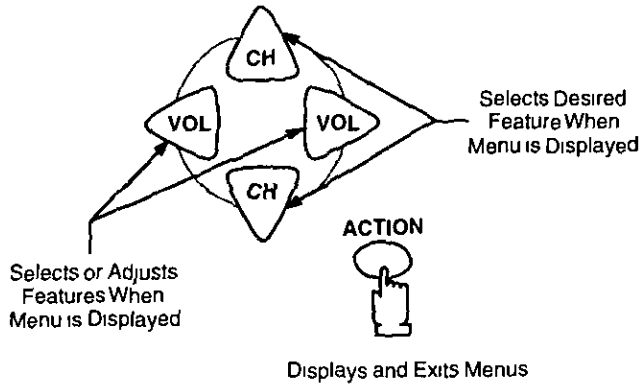


4 Press the CH DOWN button to highlight "AUTO PROG"
5 Press the VOL LEFT or RIGHT button to start Auto Programming Channels will automatically advance until all channels have been scanned
6 Press the ACTION button twice after completion of Auto Programming to exit the Set–Up Menu

NOTE: Channel numbers with signal present will turn blue which indicates stored in Channel Scan Memory

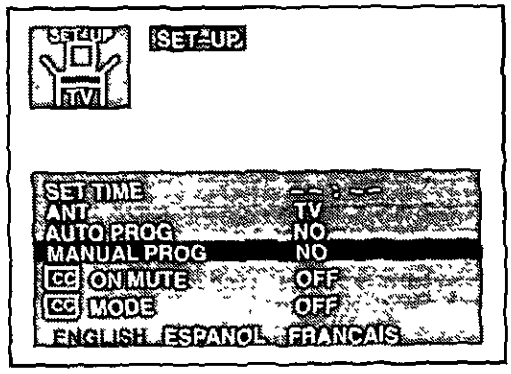
Set–up Features (cont.)

Located On Remote Control

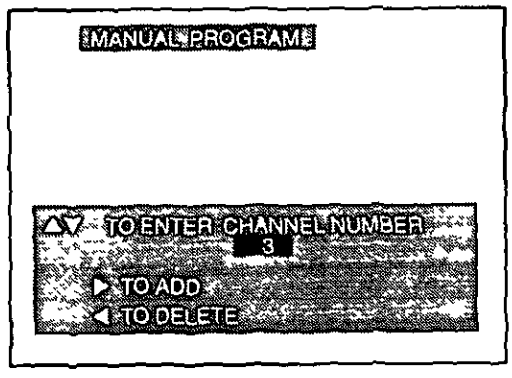


Manual Prog (Program) – This feature allows you to select which channels are placed into Channel Scan Memory

1 Press the ACTION button to display the Main Menu
2 Press the CH UP/DOWN and VOL LEFT/RIGHT buttons to highlight the Set–Up Icon
3 Press the ACTION button to display the Set–Up Menu

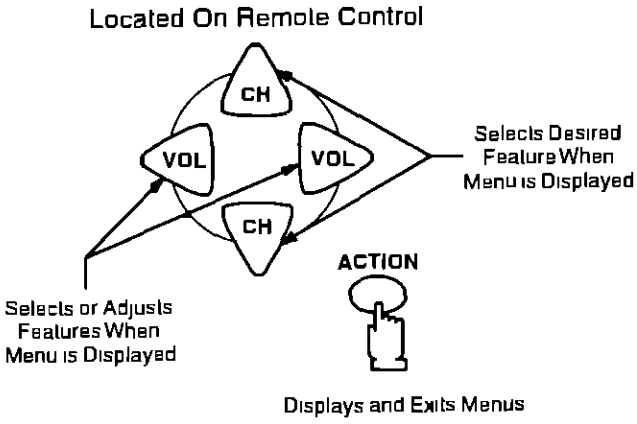


4 Press the CH DOWN button to highlight "MANUAL PROG"
5 Press the VOL LEFT or RIGHT button to display the Manual Programming Menu



6 Use the CH UP or DOWN button or the Remote Keyboard "0 through 9" buttons to select channels
7 Press the VOL RIGHT button to **add** channel(s) to memory (Blue) Press the VOL LEFT button to **delete** channels from memory (Yellow)
8 Repeat steps 6 and 7 to continue adding or deleting channels
9 Press the ACTION button twice to exit the Manual Programming Menu

Set–up Features (cont.)

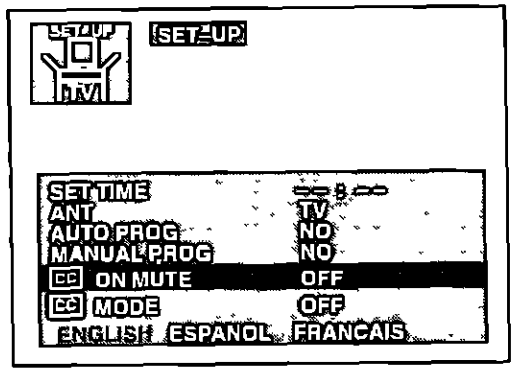


CC (Closed Caption) On Mute

Activates the On Screen Closed Captioning when the MUTE button on the Remote Control is pressed To deactivate press the MUTE button again

NOTE This feature only functions when the Close Caption Mode is in the "OFF" position The program being viewed must be broadcast with Closed Caption (Refer to your local TV guide)

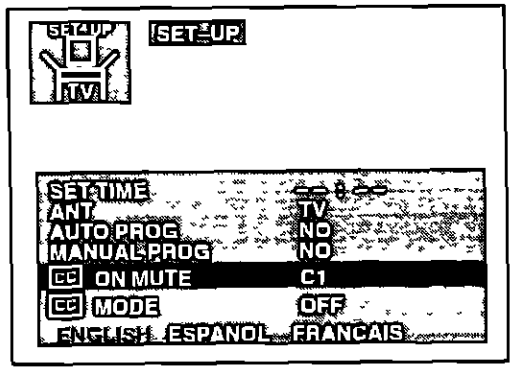
1 Press the ACTION button to display the Main Menu
2 Press the CH DOWN and VOL RIGHT buttons to select the Set–Up Icon
3 Press the ACTION button to display the Set–Up Menu



4 Press the CH DOWN button to highlight "CC ON MUTE"
5 Press the VOL RIGHT button to select OFF, C1 or C2 Mode

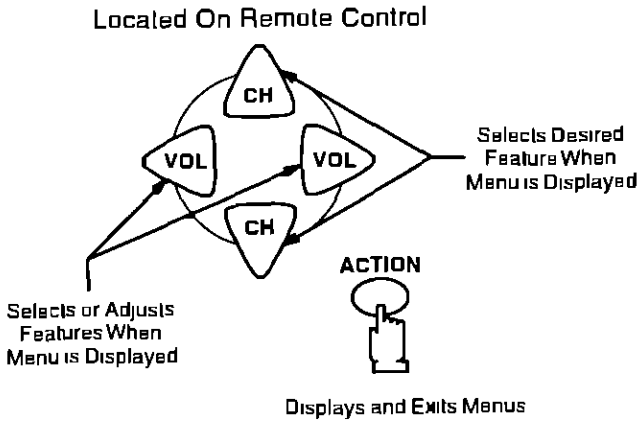
Recommended Set–Up:

- Place CC ON MUTE into the C1 Mode
- Press the CH DOWN button to select "CC MODE"
- Press the VOL RIGHT button to select "OFF"



6 Press the ACTION button twice to exit the Set–Up Menu
7 Press the MUTE button when the program being viewed is broadcast with Closed Caption to activate Press again to deactivate

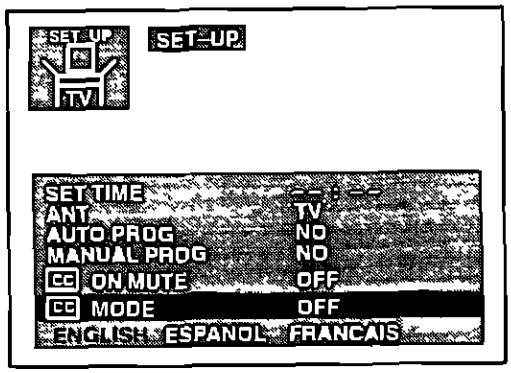
Set–up Features (cont.)



CC (Closed Caption) Mode

This Receiver has a built in decoder that provides a visual depiction of the audio portion of a television program in the form of written words across the screen (White or Colored letters on a black background) It allows the viewer to read the dialogue of a television program or other information

1 Press the ACTION button to display the Main Menu
2 Press the CH UP/DOWN and VOL LEFT/RIGHT buttons to select the Set–Up Icon
3 Press the ACTION button to display the Set–Up Menu

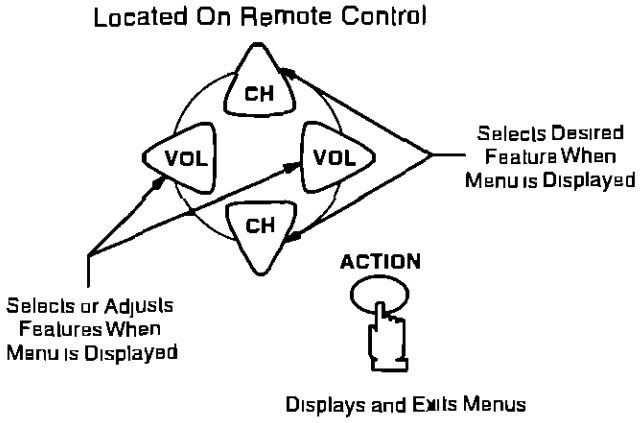


4 Press the CH DOWN button to highlight "CC MODE"
5 Press the VOL RIGHT button to select OFF, C1, or C2

- OFF – Recommended mode when you do not wish to view Closed Caption
- C1 – For video related information that can be displayed (up to 4 lines of script strategically placed on the television screen so that it does not obstruct relevant parts of the picture) Script can be in any language
- C2 – Another mode used for video related information that can be displayed (up to 4 lines of script strategically placed on the television screen so that it does not obstruct relevant parts of the picture)

6 Press the ACTION button twice to exit the Set–Up Menu

Set–up Features (cont.)



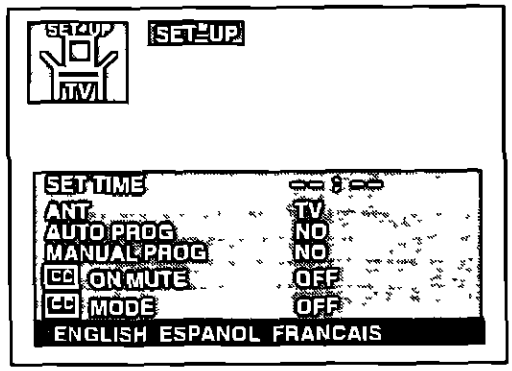
Helpful Hints:

Language Menu does not affect Close Caption transmitted information

Trilingual Menu Selection

The Language Menu is factory set to ENGLISH. Follow these instructions to change the Language Menu to Spanish or French and back to English

1. Press the ACTION button to display the Main Menu
2. Press the CH UP/DOWN and VOL LEFT/RIGHT buttons to highlight the SET–UP Icon
3. Press the ACTION button to display the Set–Up Menu



4. Press the CH UP or DOWN button to highlight "ENGLISH ESPANOL FRANCAIS"
5. Press the VOL LEFT or RIGHT button to select "ENGLISH", "ESPANOL" or "FRANCAIS"
6. Press the ACTION button twice to exit the Set–Up Menu

Power Loss

Prolonged power interruption causes the following features to reset to their factory preset state.

FEATURE	FACTORY PRESET STATE	FEATURE	FACTORY PRESET STATE
POWER	OFF	CLOCK	NOT SET
VOLUME	APPROX –1/3	SLEEP TIMER	NO/OFF
CHANNEL	CH 03	TIMER	NO/OFF
PROGRAM MEMORY	UNPROGRAMMED	ANTENNA MODE	CABLE
VIDEO MENUS	NORMALIZED	TV/VIDEO	TV
STEREO/SAP/MONO	STEREO	TRILINGUAL MENU	ENGLISH

Troubleshooting Chart

Before you call for service, determine the symptoms and make a few simple checks shown below

Symptoms		Check
Picture	**Sound**	
SNOWY PICTURE	NOISY SOUND	– ANTENNA LOCATION AND/OR CONNECTION
MULTIPLE IMAGE	NORMAL SOUND	– ANTENNA DIRECTION AND/OR LOCATION – ANTENNA LEAD–IN WIRE
INTERFERENCE	NOISY SOUND	– ELECTRICAL APPLIANCES, LIGHTS, CARS AND TRUCKS – DIATHERMY AND OTHER MEDICAL EQUIPMENT
NORMAL PICTURE	NO SOUND	– VOLUME CONTROL SETTING – MUTE CONTROL (IF APPLICABLE) – TRY ANOTHER CHANNEL – TV SPEAKERS SWITCH (IF APPLICABLE) IN THE OFF POSITION
NO VIDEO	NOISY SOUND	– TV OR CABLE TUNING MODE SET TO PROPER SETTING – ANTENNA INPUT CORRECT (IF APPLICABLE)
NO PICTURE	NO SOUND	– CHECK THAT AC POWER LINE IS PLUGGED INTO AC OUTLET – BRIGHTNESS & AUDIO CONTROLS SET PROPERLY – TRY ANOTHER CHANNEL
NO COLOR	NORMAL SOUND	– COLOR CONTROL SETTINGS – TRY ANOTHER CHANNEL
BLUE PICTURE	NO SOUND	– RECEIVER IN VIDEO MODE WITH NO SIGNAL
BLACK BOX IN PICTURE	SOUND	– CC (CLOSED CAPTION) IN TEXT MODE – SELECT CAPTION OFF MODE TO ELIMINATE BLACK BOX

Should this unit turn ON momentarily and then turn OFF, or fail to operate, unplug the AC cord and contact your Authorized Servicer for repairs

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